

DAFTAR PUSTAKA

- [1] D. Christian. (2022) Beban puncak listrik makin meningkat, ekonomi sudah pulih - pt pln (persero). [Online]. Available: <https://web.pln.co.id/cms/media/siaran-pers/2022/04/beban-puncak-listrik-makin-meningkat-ekonomi-sudah-pulih/>
- [2] P. S. Kundur and O. P. Malik, *Power system stability and control*. McGraw-Hill Education, 2022.
- [3] H. Saadat, "Power system analysis, edition," 2010.
- [4] T. U. Okeke and R. G. Zaher, "Flexible ac transmission systems (facts)," in *2013 international conference on new concepts in smart cities: fostering public and private alliances (SmartMILE)*. IEEE, 2013, pp. 1–4.
- [5] V. Azbe and R. Mihalic, "Energy function for an interline power-flow controller," *Electric power systems research*, vol. 79, no. 6, pp. 945–952, 2009.
- [6] R. M. Mathur and R. K. Varma, *Thyristor-based FACTS controllers for electrical transmission systems*. John Wiley & Sons, 2002.
- [7] N. G. Hingorani and L. Gyugyi, "Understanding facts: Concepts and technology of flexible ac transmission systems, december 1999."
- [8] S. Mukhopadhyay, A. K. Tripathy, V. Prasher, and K. K. Arya, "Application of facts in indian power system," in *IEEE/PES Transmission and Distribution Conference and Exhibition*, vol. 1. IEEE, 2002, pp. 237–242.
- [9] P. Kar, P. Panda, S. Swain, and A. Kumar, "Dynamic stability performance improvement of smib power system using tcsc and svc," in *2015 IEEE Power, Communication and Information Technology Conference (PCITC)*. IEEE, 2015, pp. 517–521.
- [10] B. B. Adetokun and C. M. Muriithi, "Application and control of flexible alternating current transmission system devices for voltage stability enhancement of renewable-integrated power grid: A comprehensive review," *Heliyon*, vol. 7, no. 3, p. e06461, 2021.
- [11] H. Baby, J. Jayakumar, M. Mathew, M. G. Hussien, and N. M. Kumar, "Analysis of reactive power loadability and management of flexible alternating current transmission system devices in a distribution grid using whale optimization algorithm," *IET Renewable Power Generation*, 2022.
- [12] J. ALNASSEIR, R. ALCHAREA, and F. ALMAGHOUT, "Improving the stability of smart grids by using flexible alternatingcurrent transmission systems (facts)," in *2021 12th International Renewable Engineering Conference (IREC)*. IEEE, 2021, pp. 1–3.
- [13] A. Siddique, Y. Xu, W. Aslam, M. Rasheed, and M. Fatima, "Analysis of transient stability with sssc and upfc with multi-band pss in two area multi-machine system," in *2018 IEEE 3rd International Conference on Integrated Circuits and Microsystems (ICICM)*. IEEE, 2018, pp. 226–230.

- [14] U. Mhaskar and A. Kulkarni, "Power oscillation damping using facts devices: modal controllability, observability in local signals, and location of transfer function zeros," *IEEE Transactions on Power Systems*, vol. 21, no. 1, pp. 285–294, 2006.
- [15] M. Beza and M. Bongiorno, "An adaptive power oscillation damping controller by statcom with energy storage," *IEEE Transactions on Power Systems*, vol. 30, no. 1, pp. 484–493, 2014.
- [16] S. Keskes, N. Bouchiba, S. Sallem, L. Chrifi-Alaoui, and M. Kammoun, "Transient stability enhancement and voltage regulation in smib power system using svc with pi controller," in *2017 6th International Conference on Systems and Control (ICSC)*. IEEE, 2017, pp. 115–120.
- [17] A. A. Alsakati, C. A. Vaithilingam, J. Alnasseir, and A. Jagadeeshwaran, "Transient stability improvement of power system using power system stabilizer integrated with excitation system," in *2021 11th IEEE International Conference on Control System, Computing and Engineering (ICCSCE)*, 2021, pp. 34–39.
- [18] A. Movahedi, A. H. Niasar, and G. Gharehpetian, "Designing sssc, tcsc, and statcom controllers using avurpso, gsa, and ga for transient stability improvement of a multi-machine power system with pv and wind farms," *International Journal of Electrical Power & Energy Systems*, vol. 106, pp. 455–466, 2019.
- [19] R. Maerani and S. Bakhri, "Perbandingan sistem pengontrolan pid konvensional dengan pengontrolan cmac, fuzzy logic dan ann pada water level pressurizer," *SIGMA EPSILON-Buletin Ilmiah Teknologi Keselamatan Reaktor Nuklir*, vol. 17, no. 3, 2013.
- [20] A. Baliarsingh, S. Panda, A. Mohanty, and C. Ardil, "Upfc supplementary controller design using real-coded genetic algorithm for damping low frequency oscillations in power systems," *International Journal of Electrical and Computer Engineering*, vol. 7, no. 4, pp. 465–475, 2010.
- [21] S. Dheebika and R. Kalaivani, "Optimal location of svc, tcsc and upfc devices for voltage stability improvement and reduction of power loss using genetic algorithm," in *2014 International Conference on Green Computing Communication and Electrical Engineering (ICGCCCE)*. IEEE, 2014, pp. 1–6.
- [22] M. B. Adisiswiyo, "Desain kendali kestabilan sistem tenaga berbasis statcom menggunakan algoritma genetika," Master's thesis, Universitas Gadjah Mada, 2008.
- [23] F. Shinta, "Optimisasi kendali statcom pada smib dengan metode particle swarm optimization," Master's thesis, Universitas Gadjah Mada, 2016.
- [24] V. Vittal, J. D. McCalley, P. M. Anderson, and A. Fouad, *Power system control and stability*. John Wiley & Sons, 2019.
- [25] J. Machowski, Z. Lubosny, J. W. Bialek, and J. R. Bumby, *Power system dynamics: stability and control*. John Wiley & Sons, 2020.

- [26] P. Kundur, J. Paserba, V. Ajjarapu, G. Andersson, A. Bose, C. Canizares, N. Hatziaargyriou, D. Hill, A. Stankovic, C. Taylor *et al.*, “Definition and classification of power system stability ieeecigre joint task force on stability terms and definitions,” *IEEE transactions on Power Systems*, vol. 19, no. 3, pp. 1387–1401, 2004.
- [27] B. S. Abdulraheem and C. K. Gan, “Power system frequency stability and control: Survey,” *International Journal of Applied Engineering Research*, vol. 11, no. 8, pp. 5688–5695, 2016.
- [28] H. Wang, W. Du *et al.*, *Analysis and damping control of power system low-frequency oscillations*. Springer, 2016.
- [29] K. R. Padiyar, *Power system dynamics : stability and control*, 2nd ed. BS Publications, 2008.
- [30] M. Eremia, C.-C. Liu, and A.-A. Edris, *Advanced solutions in power systems: HVDC, FACTS, and Artificial Intelligence*. John Wiley & Sons, 2016.
- [31] P. Kasinathan, R. Vairamani, and S. Sundramoorthy, “Dynamic performance investigation of d–q model with pid controller-based unified power-flow controller,” *IET Power Electronics*, vol. 6, no. 5, pp. 843–850, 2013.
- [32] A. Hussain, F. Malek, M. Rashid, L. Mohamed, and N. Mohd Affendi, “Optimal coordinated design of multiple damping controllers based on pss and upfc device to improve dynamic stability in the power system,” *Mathematical Problems in Engineering*, vol. 2013, 2013.
- [33] L. Haldurai, T. Madhubala, and R. Rajalakshmi, “A study on genetic algorithm and its applications,” *Int. J. Comput. Sci. Eng*, vol. 4, no. 10, pp. 139–143, 2016.
- [34] Y. Cao and Q. Wu, “Teaching genetic algorithm using matlab,” *International journal of electrical engineering education*, vol. 36, no. 2, pp. 139–153, 1999.
- [35] F. Milano, I. Dassios, M. Liu, and G. Tzounas, *Eigenvalue Problems in Power Systems*. CRC Press, 2020.
- [36] S. P. Hadi, W. Y. Atmaja, and R. S. Lubis, “Fungsi peredaman upfc pada sistem tenaga listrik mesin tunggal bus tak berhingga,” *Jurnal Nasional Teknik Elektro dan Teknologi Informasi*, vol. 1, no. 2, pp. 65–69, 2012.
- [37] M. Kothari and N. Tambey, “Unified power flow controller (upfc) based damping controllers for damping low frequency oscillations in a power system,” *IE (I) Journal-EL*, vol. 84, pp. 35–41, 2003.
- [38] M. B. Adisiswiyo, “Implementasi metode particle swarm optimization untuk perancangan kendali unified power flow control pada single machine infinite bus,” Master’s thesis, Universitas Gadjah Mada, 2012.
- [39] A. Jalilvand, A. Safari, and R. Aghmasheh, “Design of state feedback stabilizer for multi machine power system using pso algorithm,” in *2008 IEEE International Multitopic Conference*, 2008, pp. 17–23.